



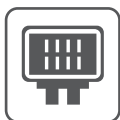
PNGNH66-DGBR

625-650 Watt

N-type Mono Topcon Bifacial



Key Features



IP68 waterproof junction box and connector

IP68 waterproof junction box and connector have excellent waterproof performance and can effectively resist harsh environments;



Anti-PID

Excellent anti-PID performance in 96 hours (85°C/85%) test, and it can also be improved to meet higher standards and is suitable for particularly harsh environments;



Unspecified MBB half cell technology

New circuit design, lower internal current, lower power loss;



Significantly reduce the risk of hot spots

Special circuit design brings lower hot spot temperature;

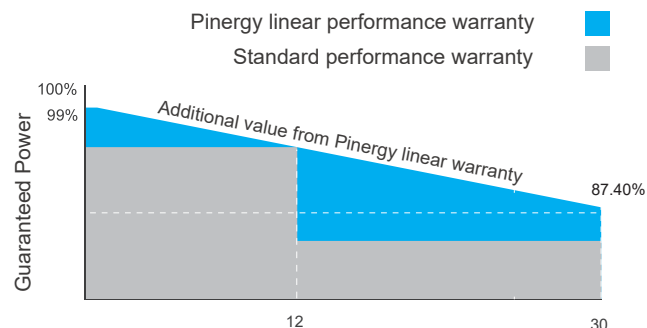


Lower power generation cost

Reduce the levelized power generation cost, and effectively increase power generation by more than 2%;

Linear Performance Warranty

12 Years Product Warranty · 30 Years Linear Power Warranty



Certifications

- IEC 61215, IEC 61730, CE, CQC
- ISO9001: 2015: Quality management system
- ISO14001: 2015: Environmental management system
- ISO45001: 2018: Occupational health and safety management system



Electrical Specifications

Module Type: PNGNH66-DGBR-xxx , (xxx=Pmax)

Module Type	625	630	635	640	645	650
Testing Condition	STC	STC	STC	STC	STC	STC
Max. Power (Pmax/W)	625	630	635	640	645	650
Voltage at Max. Power (Vmp/V)	40.88	41.02	41.16	41.29	41.42	41.56
Current at Max. Power (Imp/A)	15.29	15.36	15.43	15.50	15.57	15.64
Open circuit voltage (Voc/V)	49.28	49.48	49.68	49.88	50.08	50.28
Short circuit current (Isc/A)	16.14	16.20	16.26	16.32	16.38	16.44
Module efficiency (%)	23.10%	23.30%	23.51%	23.69%	23.88%	24.06%
Power Tolerance (W)	0~+5					

Standard Test Condition (STC): Irradiance 1000W/m², Cell Temperature 25℃, AM1.5

Nominal Module Operating Temperature (NOCT): Irradiance 800W/m², Ambient Temperature 20℃, AM1.5, Wind Speed 1m/s

Electrical Specifications

Max. Power (Pmax/W)	690	696	701	706	711	716
Voltage at Max. Power (Vmp/V)	40.88	41.04	41.18	41.35	41.48	41.64
Current at Max. Power (Imp/A)	16.88	16.98	17.02	17.08	17.14	17.20
Open circuit voltage (Voc/V)	49.26	49.346	49.66	49.86	50.06	50.26
Short circuit current (Isc/A)	17.83	17.92	17.96	18.03	18.09	18.16

Standard Test Condition (STC): Irradiance 1000W/m², Cell Temperature 25℃, AM1.5

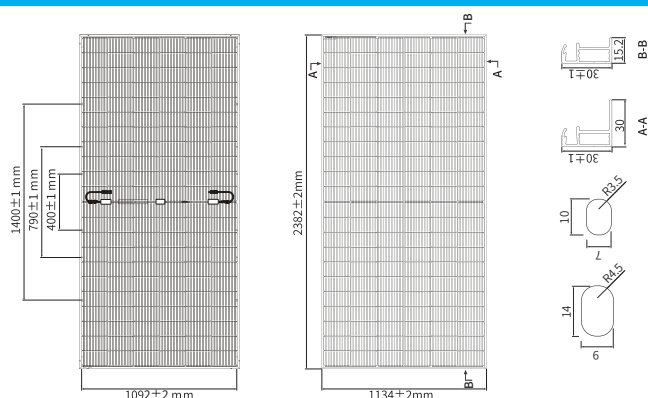
Mechanical Specifications

Cell Type	N-type Mono Solar Cell
No. of Cells	132 (6×22)
Dimension	2382x1134x30mm
Weight	32.4kg
Glass	Dual glass, 2.0mm coated tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm ² , Length 300mm or customized
Connector type	MC4 compatible

Packaging Configurations

Per Pallet	36 pcs
Per 40' HQ Container	720 pcs

Engineering Drawings



Temperature Characteristics

NOCT Temperature	44℃ ±2℃
Temperature Coefficient (Pmax)	-0.36%/℃
Temperature Coefficient (Voc)	-0.28%/℃
Temperature Coefficient (Isc)	0.05%/℃

Maximum Ratings

Maximum system voltage (IEC)	1500V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40℃ ~ +85℃
Maximum series fuse rating	30A

Curve & Temperature Dependence

